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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-31-139** **Date: 21-11-18**
Project Name	:	Package No.03(Package Consists of 21 Works)
Name of Work	:	Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08
Agency	:	Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043
Customer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	23-10-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	24-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-31-139** **Date: 26-10-18**
Project Name	:	Package No.03(Package Consists of 21 Works)
Name of Work	:	Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08
Agency	:	Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043
Customer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	23-10-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.8	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.9	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	0.285	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-31-139** **Date: 26-10-18**
Project Name	:	Package No.03(Package Consists of 21 Works)
Name of Work	:	Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08
Agency	:	Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043
Sample condition	:	Satisfactory
Date of Receipt	:	23-10-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	178	178	1.2	98.8	90-100
3	20 mm	7145	7323	48.8	51.2	30-70
4	10 mm	5699	13022	86.8	13.2	10-35
5	4.75 mm	1705	14727	98.2	1.8	0-5
6	Pan	273	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.9	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.41	_
5	Bulk Density(Compacted) (Kg/l)	1.47	_
6	Water Absorption(%)	0.24	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-31-139** **Date: 26-10-18**
Project Name	:	Package No.03(Package Consists of 21 Works)
Name of Work	:	Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08
Agency	:	Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-10-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	208	208	4.2	95.8	90-100
3	10 mm	2787	2995	59.9	40.1	25-55
4	4.75 mm	1804	4799	96.0	4.0	0-10
5	Pan	201	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.45	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-31-139** **Date: 26-10-18**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 23-10-18

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 23-10-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	133	154	15.4	84.6	60-95	75-100	85-100	95-100
4	1.18 mm	179	333	33.3	66.7	30-70	55-90	75-100	90-100
5	600 micron	245	578	57.8	42.2	15-34	35-59	60-79	80-100
6	300 micron	182	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	178	938	93.8	6.2	0-10	0-10	0-10	0-15
8	Pan	62	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-31-139** **Date: 26-10-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.08	_
2	Specific Gravity	2.57	_
3	Material finer than 75 micron(%)	6.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
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Quality Manager

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TEST RESULTS OF STEEL

Lab ID : **CP-2018-12-31-139** **Date: 30-10-18**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 29-10-18

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 29-10-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	542	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	568	685	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	585	692	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 24/11/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 19-11-18

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/11/2018	24/11/2018	151.84 X 150.35 X 150.90	22828	**8.198**	415.5	18.2	18.4
2	Drain Concrete	M20	17/11/2018	24/11/2018	149.44 X 151.46 X 151.97	22633	**8.398**	428.0	18.9	
3	Drain Concrete	M20	17/11/2018	24/11/2018	150.06 X 150.77 X 149.94	22624	**8.273**	411.4	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 15/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 19-11-18

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/11/2018	15/12/2018	151.39 X 151.61 X 149.15	22952	**8.631**	548.2	23.9	23.1
2	Drain Concrete	M20	17/11/2018	15/12/2018	150.14 X 151.10 X 151.33	22686	**8.774**	505.7	22.3	
3	Drain Concrete	M20	17/11/2018	15/12/2018	149.17 X 149.22 X 149.02	22260	**8.681**	512.5	23.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 24/11/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 19-11-18

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/11/2018	24/11/2018	149.96 X 151.54 X 150.14	22725	**8.198**	420.5	18.5	18.8
2	Drain Concrete	M20	17/11/2018	24/11/2018	151.08 X 149.47 X 150.72	22582	**8.398**	428.4	19.0	
3	Drain Concrete	M20	17/11/2018	24/11/2018	150.21 X 150.28 X 149.49	22573	**8.273**	428.3	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 15/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 19-11-18

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/11/2018	15/12/2018	150.36 X 151.44 X 149.77	22772	**8.631**	529.3	23.2	23.3
2	Drain Concrete	M20	17/11/2018	15/12/2018	150.71 X 151.88 X 150.16	22891	**8.774**	525.3	22.9	
3	Drain Concrete	M20	17/11/2018	15/12/2018	150.93 X 149.56 X 151.05	22573	**8.681**	537.8	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 24/11/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 19-11-18

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/11/2018	24/11/2018	149.79 X 149.74 X 149.35	22429	**8.198**	406.0	18.1	18.0
2	Drain Concrete	M20	17/11/2018	24/11/2018	149.43 X 149.50 X 150.71	22340	**8.398**	402.8	18.0	
3	Drain Concrete	M20	17/11/2018	24/11/2018	150.72 X 151.89 X 149.40	22892	**8.273**	412.3	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 15/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 19-11-18

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/11/2018	15/12/2018	150.43 X 149.40 X 151.33	22473	**8.631**	518.5	23.1	23.1
2	Drain Concrete	M20	17/11/2018	15/12/2018	150.46 X 150.04 X 149.50	22576	**8.774**	515.2	22.8	
3	Drain Concrete	M20	17/11/2018	15/12/2018	150.94 X 151.24 X 150.67	22828	**8.681**	533.2	23.4	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 24/11/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 19-11-18

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/11/2018	24/11/2018	150.04 X 150.61 X 150.51	22598	**8.198**	417.6	18.5	18.4
2	Drain Concrete	M20	18/11/2018	25/11/2018	151.19 X 151.56 X 149.36	22914	**8.398**	421.3	18.4	
3	Drain Concrete	M20	19/11/2018	26/11/2018	150.44 X 149.50 X 149.60	22491	**8.273**	409.1	18.2	

FOR CIVIL Pro.

R KARTHIK RECHAN
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 15/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 19-11-18

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/11/2018	15/12/2018	151.77 X 150.74 X 150.76	22878	**8.631**	548.0	24.0	23.4
2	Drain Concrete	M20	17/11/2018	15/12/2018	150.25 X 151.29 X 150.36	22732	**8.774**	513.0	22.6	
3	Drain Concrete	M20	17/11/2018	15/12/2018	151.18 X 150.23 X 149.41	22712	**8.681**	535.5	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 24/11/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 19-11-18

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/11/2018	24/11/2018	149.77 X 151.26 X 150.14	22654	**8.198**	412.4	18.2	18.3
2	Drain Concrete	M20	17/11/2018	24/11/2018	149.07 X 149.18 X 150.66	22239	**8.398**	408.2	18.4	
3	Drain Concrete	M20	17/11/2018	24/11/2018	149.52 X 150.91 X 149.16	22564	**8.273**	415.5	18.4	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 15/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 19-11-18

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/11/2018	15/12/2018	150.00 X 149.35 X 151.20	22402	**8.631**	520.1	23.2	23.2
2	Drain Concrete	M20	17/11/2018	15/12/2018	151.97 X 150.13 X 150.76	22814	**8.774**	517.6	22.7	
3	Drain Concrete	M20	17/11/2018	15/12/2018	149.44 X 149.63 X 151.60	22361	**8.681**	532.4	23.8	

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Quality Manager

Assistant Executive Engineer,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 10/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 05-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	149.16 X 150.25 X 149.38	22411	**8.198**	406.1	18.1	18.3
2	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	151.24 X 150.11 X 149.14	22703	**8.398**	409.0	18.0	
3	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	149.78 X 150.37 X 150.05	22523	**8.273**	421.3	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 31/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 05-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	150.23 X 151.34 X 150.08	22737	**8.631**	545.1	24.0	23.5
2	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	151.68 X 151.56 X 151.35	22989	**8.774**	522.8	22.7	
3	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	151.16 X 149.14 X 150.16	22544	**8.681**	535.9	23.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 10/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 05-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	151.50 X 150.63 X 151.46	22820	**8.587**	412.3	18.1	18.4
2	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	149.74 X 151.91 X 151.75	22747	**8.740**	427.1	18.8	
3	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	150.02 X 149.70 X 149.22	22459	**8.608**	411.9	18.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 31/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 05-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	149.71 X 150.11 X 150.43	22474	**8.631**	524.2	23.3	23.1
2	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	150.52 X 150.71 X 150.67	22685	**8.774**	510.6	22.5	
3	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	150.78 X 149.34 X 150.89	22517	**8.681**	531.5	23.6	

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R KARTHIK RECHAN
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Quality Manager

Assistant Executive Engineer,
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Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 10/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 05-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	+ (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	151.48 X 149.73 X 150.57	22681	**8.198**	430.2	19.0	18.6
2	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	149.47 X 149.51 X 150.15	22347	**8.398**	+	18.1	
3	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	149.62 X 152.00 X 150.01	22741	**8.273**	424.7	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 31/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 05-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	149.63 X 149.23 X 151.48	22330	**8.631**	534.3	23.9	23.4
2	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	151.16 X 149.00 X 151.46	22523	**8.774**	503.5	22.4	
3	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	150.13 X 150.44 X 149.50	22585	**8.681**	536.8	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 10/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 05-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	149.24 X 149.98 X 151.64	22384	**8.198**	414.5	18.5	18.5
2	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	149.41 X 150.51 X 150.12	22488	**8.398**	410.4	18.3	
3	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	150.54 X 149.91 X 151.34	22568	**8.273**	424.3	18.8	

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Authorized Signatory
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Assistant Executive Engineer,
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 31/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 05-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	149.26 X 149.86 X 150.08	22369	**8.631**	524.9	23.5	23.0
2	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	150.73 X 150.64 X 151.46	22707	**8.774**	511.4	22.5	
3	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	149.13 X 150.13 X 150.80	22389	**8.681**	517.1	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 10/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 05-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	149.31 X 149.12 X 151.35	22266	**8.198**	402.9	18.1	18.4
2	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	151.26 X 150.69 X 151.85	22795	**8.398**	412.9	18.1	
3	Cement Concrete Pavement	M20	03/12/2018	10/12/2018	149.06 X 150.84 X 150.21	22485	**8.273**	426.7	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-31-139** **Date: 31/12/2018**

Project Name : Package No.03(Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains at Muneshwara Block at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa,#1C-301,3rd Main Block,HRBR Layout,Kalyan Nagar Bangalore-560043

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 05-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	149.43 X 151.51 X 150.09	22640	**8.631**	533.4	23.6	23.5
2	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	149.28 X 150.12 X 151.74	22410	**8.774**	514.0	22.9	
3	Cement Concrete Pavement	M20	03/12/2018	31/12/2018	151.54 X 151.22 X 150.66	22915	**8.681**	549.4	24.0	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-31-139** **Date: 26-10-2018**
Project Name	:	Package N0.03 (Package Consists of 21 Works)
Name of Work	:	Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.
Customer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	23-10-2018
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-10-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.75	–
2	Finess by Air permeablity method (m^2/kg,Min)	281.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-31-139**	**Date: 21-11-2018**
Project Name	:	Package N0.03 (Package Consists of 21 Works)	
Name of Work	:	Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08	
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.	
Customer's Reference	:	BBMP/EE/BTP/WO/148/2018-19	
Date of Receipt	:	23-10-2018	
Sample Type	:	Birla Super 53grade	
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6	
Date of test	:	24-10-2018	
Environmental Conditions during test	:	Temperature:	26°C
		Humidity:	72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-31-139** **Date: 26-10-2018**
Project Name	:	Package N0.03 (Package Consists of 21 Works)
Name of Work	:	Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.
Customer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	23-10-2018
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-10-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	5437	5679	37.9	62.1	30-70
4	10 mm	4339	10018	66.8	33.2	10-35
5	4.75 mm	4649	14667	97.8	2.2	0-5
6	Pan	333	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-31-139** **Date: 26-10-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.20	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-31-139** **Date: 25-10-2018**
Project Name	:	Package N0.03 (Package Consists of 21 Works)
Name of Work	:	Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	23-10-2018
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-10-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	240	240	4.8	95.2	90-100
3	10 mm	2567	2807	56.1	43.9	25-55
4	4.75 mm	2030	4837	96.7	3.3	0-10
5	Pan	163	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-31-139** **Date: 25-10-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.3	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.5	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	22.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-31-139** **Date: 25-10-2018**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 23-10-2018

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 23-10-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	78	78	7.8	92.2	90-100	90-100	90-100	95-100
3	2.36 mm	65	143	14.3	85.7	60-95	75-100	85-100	95-100
4	1.18 mm	244	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	215	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	178	780	78.0	22.0	5-20	8-30	12-40	15-50
7	150 micron	141	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-31-139** **Date: 25-10-2018**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.05	_
2	Specific Gravity	2.51	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID : **CP-2018-12-31-139** **Date: 30-10-2018**

Project Name : Package N0.03 (Package Consists of 21 Works)

Name of Work : Improvements to Roads and Drains to Lottegollahalli at Kodigehalli Ward No.08

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 29-10-2018

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 29-10-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

FOR CIVIL Pro.

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